

Real-time Arrival Information
of
The Kowloon Motor Bus Company (1933) Limited

Data Dictionary

Version 1.02

10 May 2021

Amendment History

Version Number	Revision Details	Revision Date
1.00	Initial Version	08 Mar 2021
1.01	Revise data field description.	11 Mar 2021
1.02	Revise data field description of Route and Route Stop APIs.	10 May 2021

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1. Introduction

This is the Data Dictionary of a RESTful API, which returns the result in JSON format. The API provides static information of Kowloon Motor Bus (KMB) and Long Win Bus (LWB) such as bus routes, bus stops and their locations and also estimated bus arrival time (ETA) of bus stops on the specific route. This Data Dictionary provides detailed information on the data fields involved, such as name, type and description.

2. Data Dictionary

Below is the list of data fields of the main tables involved in the API

2.1. Route / Route List

Data Field	Data Type	Description	Definition (if applicable)	Example
type	String	The corresponding API that returns the data.	The value will always be "Route" or "RouteList".	"type": "Route"
version	String	The version number of the JSON returned.	The version number in major and minor versioning format.	"version": "1.0"
generated_timestamp	String	The timestamp of the initial generated time of the response before it is cached.	Date time with the time zone in ISO 8601 format.	"generated_timestamp ": "2021-01-21T13:20:20+08:00"
data	Object	The object that of the data requested.	The object consists of the following fields: <ul style="list-style-type: none"> co route bound service_type 	"data": <pre>{ "co": "KMB", "route": "74B", "bound": "O", "service_type": "1",</pre>

			<ul style="list-style-type: none"> orig_en orig_tc orig_sc dest_en dest_tc dest_sc data_timestamp 	<pre> "orig_en": "KOWLOON BAY", "orig_tc": "九龍灣", "orig_sc": "九龙湾", "dest_en": "TAI PO CENTRAL", "dest_tc": "大埔中心", "dest_sc": "大埔中心", "data_timestamp": "2020-11-29T11:40:00+08:00" </pre> <p>} Note: Empty data object denotes data not available. Note: For the List API, data is returned in an array of objects</p>
co	String	The bus company.	The value will always be "KMB" which includes bus route services of KMB and LWB.	"co": "KMB"
route	String	The bus route number.	Route services of KMB and LWB are included.	"route": "74B"
bound	String	The direction of the bus route.	The direction can be: <ul style="list-style-type: none"> I - inbound 	"bound": "O"

			<ul style="list-style-type: none"> • O - outbound 	
service_type	String	The service type of the bus route.		"service_type": "1"
orig_en	String	The origin of a bus route in English.		"orig_en": "TAI PO CENTRAL",
orig_tc	String	The origin of a bus route in Traditional Chinese.		"orig_tc": "大埔中心"
orig_sc	String	The origin of a bus route in Simplified Chinese.		"orig_sc": "大埔中心"
dest_en	String	The destination of a bus route in English		"dest_en": "KWUN TONG FERRY"
dest_tc	String	The destination of a bus route in Traditional Chinese.		"dest_tc": "觀塘碼頭"
dest_sc	String	The destination of a bus route in Simplified Chinese.		"dest_sc": "观塘码头"
data_timestamp	String	The timestamp of the data when it was initially prepared from the origin server.	Date time with the time zone in ISO 8601 format.	"data_timestamp": "2020-11-29T11:40:00+08:00"

2.2. Stop / Stop List

Data Field	Data Type	Description	Definition (if applicable)	Example
type	String	The corresponding API that returns the data.	The value will always be "Stop" or "StopList".	"type": "Stop"
version	String	The version number of the JSON returned.	The version number in major and minor versioning format.	"version": "1.0"
generated_timestamp	String	The timestamp of the initial generated time of the response before it is cached.	Date time with the time zone in ISO 8601 format.	"generated_timestamp ": "2021-01-21T13:20:20+08:00"
data	Object	The object that of the data requested.	The object consists of the following fields: <ul style="list-style-type: none"> • stop • name_tc • name_en • name_sc • lat • long • data_timestamp 	"data": { <pre> "stop": "A3ADFCDF8487ADB9", "name_tc": "中秀茂坪", "name_en": " SAU MAU PING (CENTRAL)", "name_sc": "中秀茂坪", "lat": 22.318856, "long": 114.231353, "data_timestamp": "2020-11-29T11:40:00+08:00" </pre> }

				Note: Empty data object denotes data not found. Note: For the List API, data is returned in an array of objects
stop	String	The ID of a bus stop.		"stop": " A3ADFCDF8487ADB9"
name_tc	String	The name of a bus stop, in Traditional Chinese		"name_en": " SAU MAU PING (CENTRAL)"
name_en	String	The name of a bus stop, in English.		"name_tc": "中秀茂坪"
name_sc	String	The name of a bus stop, in Simplified Chinese.		"name_sc": "中秀茂坪"
lat	String	Latitude of a bus stop location.	Latitude in decimal degree in WGS84 standard.	"lat": 22.318856
long	String	Longitude of a bus stop location.	Longitude in decimal degree in WGS84 standard.	"long": 114.231353
data_timestamp	String	The timestamp of the data when it was initially prepared from the origin server.	Date time with the time zone in ISO 8601 format.	"data_timestamp": "2020-11-29T11:40:00+08:00"

2.3. Route-Stop / Route-Stop List

Data Field	Data Type	Description	Definition (if applicable)	Example
type	String	The corresponding API that returns the data.	The value will always be "RouteStop" or "RouteStopList".	"type": "RouteStop"
version	String	The version number of the JSON returned.	The version number in major and minor versioning format.	"version": "1.0"
generated_timestamp	String	The timestamp of the initial generated time of the response before it is cached.	Date time with the time zone in ISO 8601 format.	"generated_timestamp ": "2021-01-21T13:20:20+08:00"
data	Object	The object that of the data requested.	The object consists of the following fields: <ul style="list-style-type: none"> co route bound service_type seq stop data_timestamp 	"data": [<pre> { "co": "KMB", "route": "1A", "bound": "O", "service_type": "1", "seq": 1, "stop": "A3ADFCDF8487ADB9", "data_timestamp": "2020-11-29T11:40:00+08:00" } </pre>

				<pre> }, ... { "co": "KMB", "route": "1A", "dir": "O", "service_type": "1", "seq": 34, "stop": "DCFF4041D0C0ACF8", "data_timestamp": "2020-11-29T11:40:00+08:00" }] </pre> <p>Note: Empty data object denotes data not available.</p>
co	String	The bus company.	The value will always be "KMB".	"co": "KMB"
route	String	The bus route number of the requested bus company.		"route": "1A"
bound	String	The direction of the bus route.	The value can be: <ul style="list-style-type: none"> • I - inbound • O - outbound 	"bound": "O"

service_type	String	The service type of the bus route.		"service_type": "1"
seq	Numeric	The stop sequence number of a bus route.		"seq": 1
stop	String	The ID of a bus stop.		"stop": "A3ADFCDF8487ADB9"
data_timestamp	String	The timestamp of the data when it was initially prepared from the origin server.	Date time with the time zone in ISO 8601 format.	"data_timestamp": "2020-11-29T11:40:00+08:00"

2.4. ETA / Stop ETA / Route ETA

Data Field	Data Type	Description	Definition (if applicable)	Example
type	String	The corresponding API that returns the data.	The value will always be "ETA", "StopETA" or "RouteETA".	"type": "ETA"
version	String	The version number of the JSON returned.	The version number in major and minor versioning format.	"version": "1.0"
generated_timestamp	String	The timestamp of the initial generated time of the response before it is cached.	Date time with the time zone in ISO 8601 format.	"generated_timestamp ": "2021-01-21T13:20:20+08:00"
data	Object	The object that of the data requested.	The object consists of the following fields: <ul style="list-style-type: none"> co route dir service_type seq stop dest_tc dest_sc 	"data": [<pre> { "co": "KMB", "route": "1A", "dir": "O", "service_type": 1, "seq": 1, "stop": "DCFF4041D0C0ACF8", "dest_tc": "尖沙咀碼頭", "dest_sc": "尖沙咀碼頭", </pre>

			<ul style="list-style-type: none"> • dest_en • eta_seq • eta • rmk_tc • rmk_sc • rmk_en • data_timestamp 	<pre>"dest_en": "STAR FERRY", "eta_seq": 1, "eta": "2022-11- 29T15:48:00+08:00", "rmk_tc": "", "rmk_sc": "", "rmk_en": "", "data_timestamp": "2022-11- 29T15:44:33+08:00" }, ...]</pre> <p>Note: Empty data object denotes data not available.</p>
co	String	The bus company.	The value will always be "KMB".	"co": "KMB"
route	String	The bus route number of the requested bus company.		"route": "1A"
dir	String	The direction of the bus route.	<p>The direction can be:</p> <ul style="list-style-type: none"> • I - inbound • O - outbound 	"direction": "O"

service_type	String	The service type of the bus route.		"service_type": "1"
seq	Numeric	The stop sequence number of a bus route.		"seq": 1
stop	String	The ID of a bus stop.		"stop": "A3ADFCDF8487ADB9"
dest_en	String	The destination of a bus route in English		"dest_en": "STAR FERRY"
dest_tc	String	The destination of a bus route in Traditional Chinese.		"dest_tc": "尖沙咀碼頭"
dest_sc	String	The destination of a bus route in Simplified Chinese.		"dest_sc": "尖沙咀码头"
eta_seq	Numeric	The sequence number of ETA		"eta_seq":1
eta	String	The timestamp of the next ETA	Date time with the time zone in ISO 8601 format.	"eta": "2022-11-29T15:48:00+08:00"
rmk_en	String	The remark of an ETA in English.		"rmk_en": ""
rmk_tc	String	The remark of an ETA in Traditional Chinese.		"rmk_tc": ""
rmk_sc	String	The remark of an ETA in Simplified Chinese.		"rmk_sc": ""
data_timestamp	String	The timestamp of the data when it was initially	Date time with the time zone in ISO 8601 format.	"data_timestamp": "2020-11-29T11:40:00+08:00"

		prepared from the origin server.		
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